

Comparisons of Job Characteristics

Focus Occupation: [Highway Maintenance Workers \(47-4051\)](#)

Associated Occupation: [Paving, Surfacing, and Tamping Equipment Operators \(47-2071\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Paving, Surfacing, and Tamping Equipment Operators (47-2071)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Building and Construction	4.0	15.6	12.2	<< Extensive education and/or training may be required
Mechanical	6.8	13.5	11.0	< Expanded education and/or training may be required
Public Safety and Security	6.9	9.9	14.2	>> Current knowledge level is likely more than sufficient
Transportation	4.6	9.7	10.6	0 Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Paving, Surfacing, and Tamping Equipment Operators (47-2071)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	9.8	11.4	> Skill level is likely sufficient
Operation and Control	5.4	9.1	11.4	> Skill level is likely sufficient
Equipment Maintenance	3.5	8.2	8.3	0 Current skill level may be sufficient
Repairing	3.4	8.1	7.9	0 Current skill level may be sufficient
Troubleshooting	4.5	7.2	8.5	> Skill level is likely sufficient
Equipment Selection	3.3	6.9	4.4	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 93			
Focus Occupation: Highway Maintenance Workers (47-4051) Associated Occupation: Paving, Surfacing, and Tamping Equipment Operators (47-2071)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Multilimb Coordination	6.0	11.9	12.9	0	Current ability level may be sufficient
Control Precision	6.6	11.4	13.3	>	Current ability level is likely sufficient
Depth Perception	5.3	10.0	10.2	0	Current ability level may be sufficient
Reaction Time	4.8	9.5	10.8	>	Current ability level is likely sufficient
Static Strength	5.0	9.3	10.1	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	8.9	8.6	0	Current ability level may be sufficient
Rate Control	3.8	8.1	9.8	>	Current ability level is likely sufficient
Glare Sensitivity	2.6	6.7	5.6	<	Some improvement in abilities may be required
Spatial Orientation	2.7	6.5	6.9	0	Current ability level may be sufficient
Peripheral Vision	2.2	5.4	5.5	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 76
Focus Occupation: Highway Maintenance Workers (47-4051) Associated Occupation: Paving, Surfacing, and Tamping Equipment Operators (47-2071)		
Work Activities	Exclusivity of Activity	
Drive truck with capacity greater than 3 tons	72	
Understand construction specifications	53	
Use hand or power tools	2	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 87
Focus Occupation: Highway Maintenance Workers (47-4051) Associated Occupation: Paving, Surfacing, and Tamping Equipment Operators (47-2071)		

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Earth moving machinery	11
Forming tools	2
Heating equipment and parts and accessories	19
Heavy equipment components	21
Holding and clamping tools	3
Information exchange software	1
Land surveying instruments	19
Paint applicators and painting accessories	15
Paving equipment	35
Personal communication devices	2
Pneumatic tools	8
Power tools	2
Product and material trailers	24
Product and material transport vehicles	13
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.